

July 2021: Month In Review

Weather Forecast Office
Binghamton, NY
Issued 2:30 PM Aug 4th , 2021



**Central New York &
Northeast Pennsylvania**

July Monthly Temperatures

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Binghamton, NY
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Location	July Avg Max T (Departure)	July Avg Min T (Departure)	July Avg T (Departure)	# of 90°+ Days (Avg #)
Binghamton, NY (Airport)	76.2° (-2.2°)	59.8° (+0.4°)	68.0° (-0.9°)	0 Days (1 Day)
Syracuse, NY	81.3° (-0.4°)	63.4° (+1.4°)	72.3° (+0.5)	2 Days (4 Days)
Avoca (Scranton), PA	82.7° (-1.9°)	62.9° (+0.2°)	72.8° (-0.9°)	3 Days 6 Days

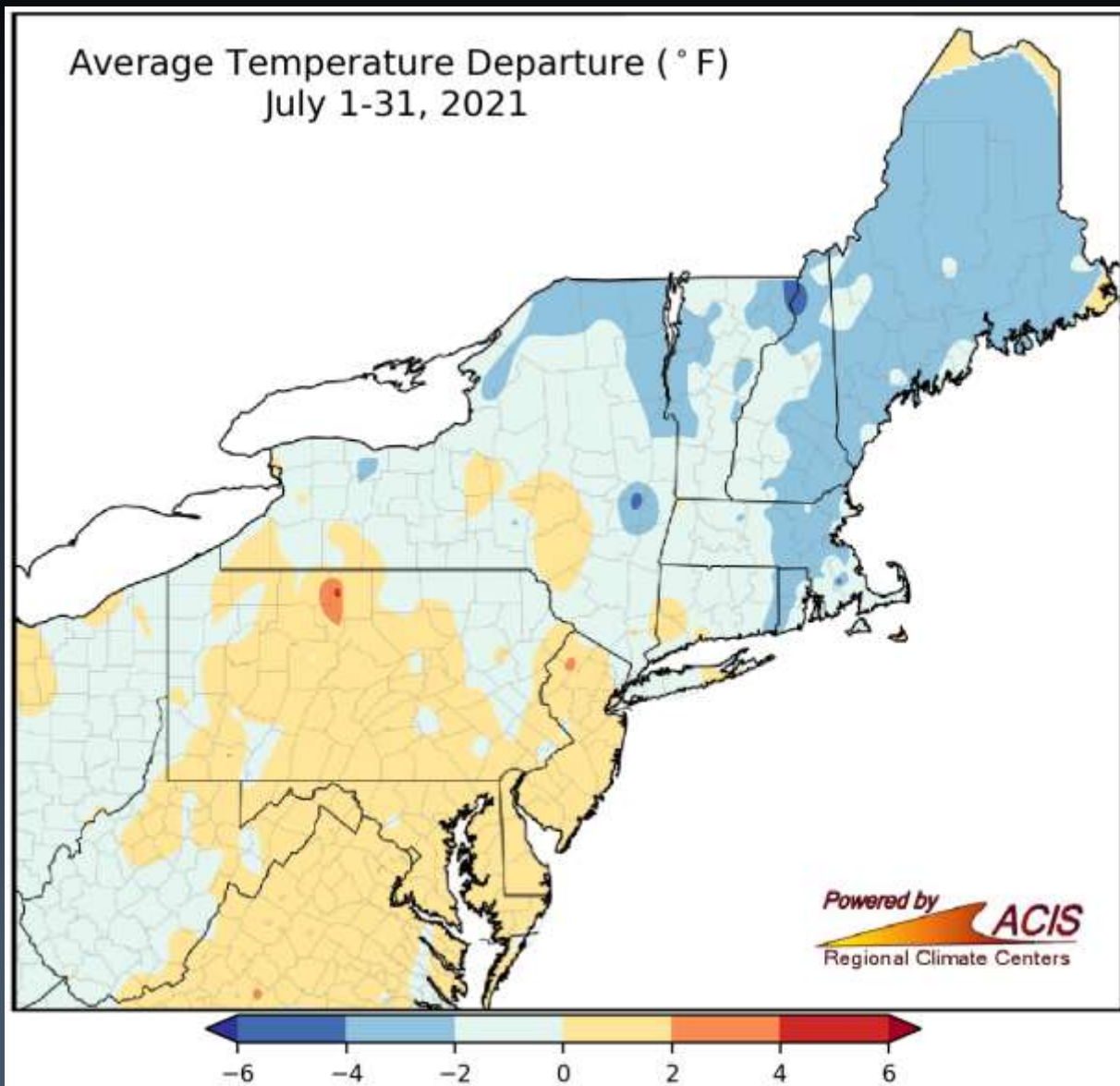


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July Monthly Temperatures

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July featured near average temperatures across the majority of Central NY and Northeast PA; with monthly temperatures generally falling within 1°F of average.

Map Courtesy of the Northeast Regional Climate Center

July Rainfall Totals

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Location	July Rainfall Total	Greatest 1-Day Rain Total	Number of days with ≥ 0.01 "
Binghamton, NY (Airport)	9.82" <i>+6.02"</i>	1.80" July 11 th	18 Days (Tied for Most on Record in July)
Syracuse, NY	6.85" <i>+3.07"</i>	1.06" July 18 th	18 Days (Most on Record in July)
Avoca (Scranton), PA	4.85" <i>+1.24</i>	0.65" July 17 th	18 Days (2 nd Most on Record in July)

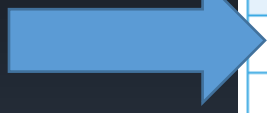
Wettest July on Record: Binghamton NY

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Maximum 1-Month Total Precipitation for Binghamton Area, NY (ThreadEx)

July 2021



Rank	Value	Ending Date	Missing Days
1	9.82	2021-07-31	0
2	7.67	2004-07-31	0
3	7.40	1956-07-31	0
4	7.36	1986-07-31	0
5	6.93	2017-07-31	0
6	6.52	2013-07-31	0
7	6.49	1952-07-31	0
8	6.40	1976-07-31	0
9	6.32	1992-07-31	0
10	6.13	1975-07-31	0
Period of record: 1951-05-25 to 2021-08-03			

****Also of note, 4 days had more than 1.00" of rain during July, this is the most on record for July, AND for any month on record. ****

3rd Wettest Month on Record: Binghamton NY

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Maximum 1-Month Total Precipitation for Binghamton Area, NY (ThreadEx)

Rank	Value	Ending Date	Missing Days
1	16.58	2011-09-30	0
2	11.45	2006-06-30	0
3	9.82	2021-07-31	0
4	9.74	2015-06-30	0
5	9.66	1977-09-30	0
6	9.46	1960-06-30	0
7	9.43	1955-10-31	0
8	9.18	1972-06-30	0
9	8.90	2011-08-31	0
10	8.88	2018-08-31	0
Period of record: 1951-05-25 to 2021-08-03			

****Both June 2006 and September 2011 saw major flooding (river and flash-flooding) across the area****

7th Wettest July on Record:

Syracuse NY

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Maximum 1-Month Total Precipitation for Syracuse Area, NY (ThreadEx)

Rank	Value	Ending Date	Missing Days
1	10.12	2006-07-31	0
2	9.52	1974-07-31	0
3	9.32	1975-07-31	0
4	8.00	1992-07-31	0
5	7.37	1915-07-31	0
6	6.95	2004-07-31	0
7	6.93	2021-07-31	0
8	6.49	1971-07-31	0
9	6.33	1967-07-31	0
10	6.14	1935-07-31	0

Last value also occurred in one or more previous years.

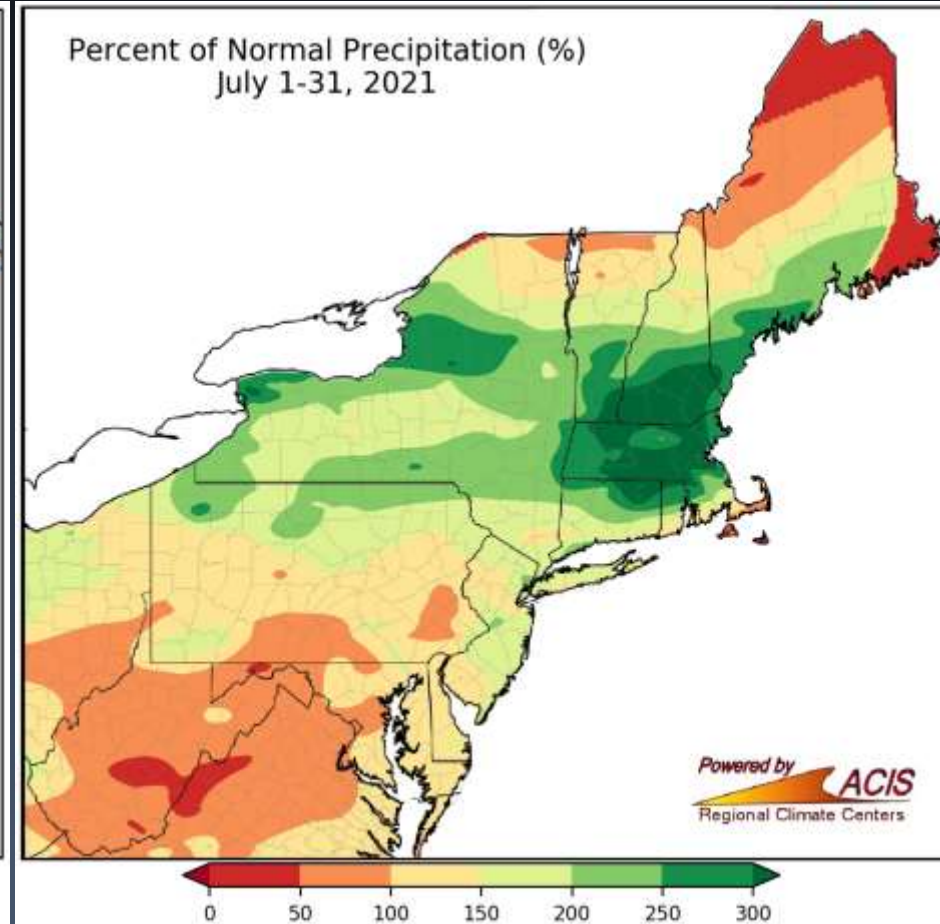
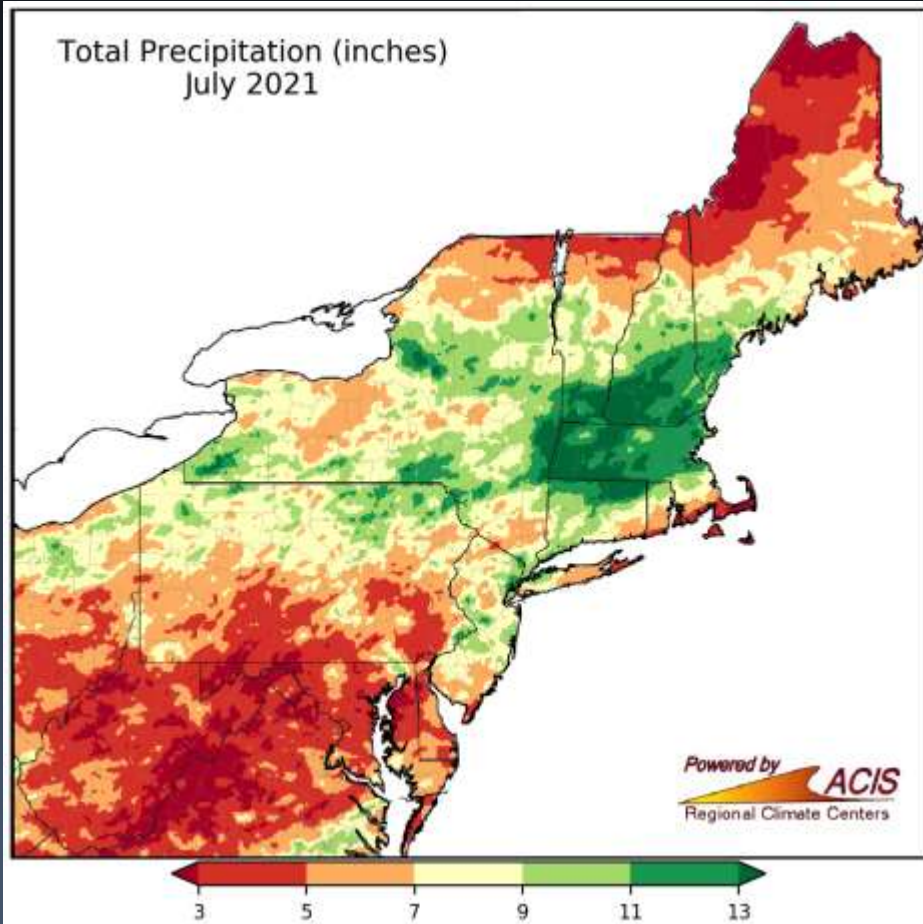
Period of record: 1902-09-01 to 2021-08-03

July Regional Rainfall Maps

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Above average rainfall fell across all of NE PA and Central NY; with some areas seeing 250-300 % of their normal rainfall. Localized locations in the Southern Tier, and Tug Hill Plateau recorded 11-13" + of rain for the month!



Maps Courtesy of the Northeast Regional Climate Center

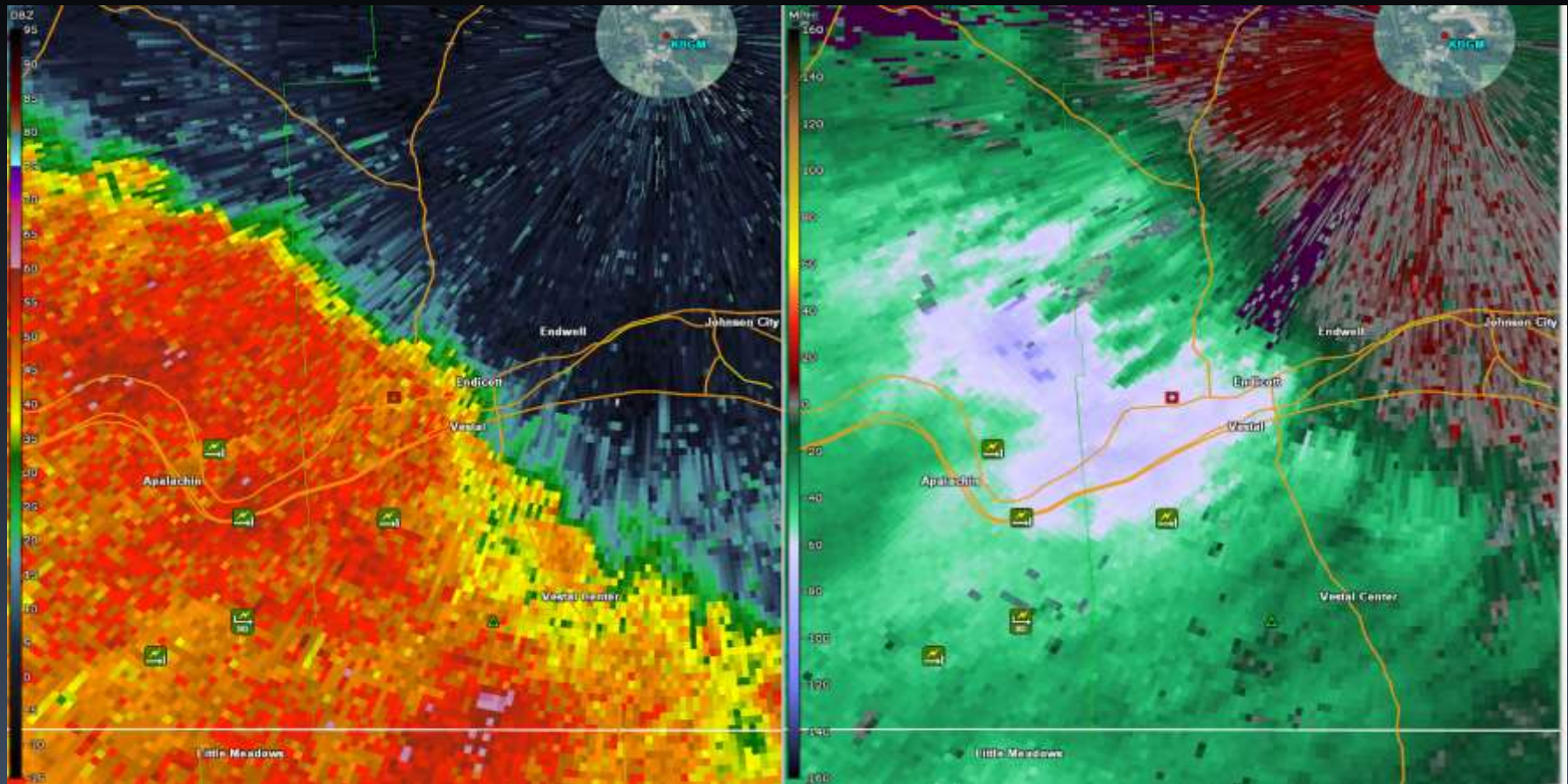


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Severe T'storms & Downburst July 7th

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A line of severe thunderstorms moved through during the evening hours on 7/7/2021, bringing damaging downburst winds. The strongest winds were along a path starting in Bradford county and tracking northeast into southeast Tioga & western Broome Counties. Radar indicated winds were upwards of ~105 MPH just a few hundred feet off the ground near Campville, NY. Subsequent damage surveys determined surface winds up to 80 mph, with numerous large trees and power lines down across the region.

Westernville, NY Tornado (7/8)

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OCEANIC AND ATMOSPHERIC ADMINISTRATION

Preliminary Damage Survey

Oneida County NY Tornado

Date: July 8th, 2021

Estimated time: 7:30 – 7:36 PM EDT

Maximum EF-Scale Rating: EF-1

Estimated max winds: 105 MPH

Maximum path width: 100 yards

Path length: 2.16 MILES



Oneida County

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Heavy Rain & Flash-Flooding 7/11

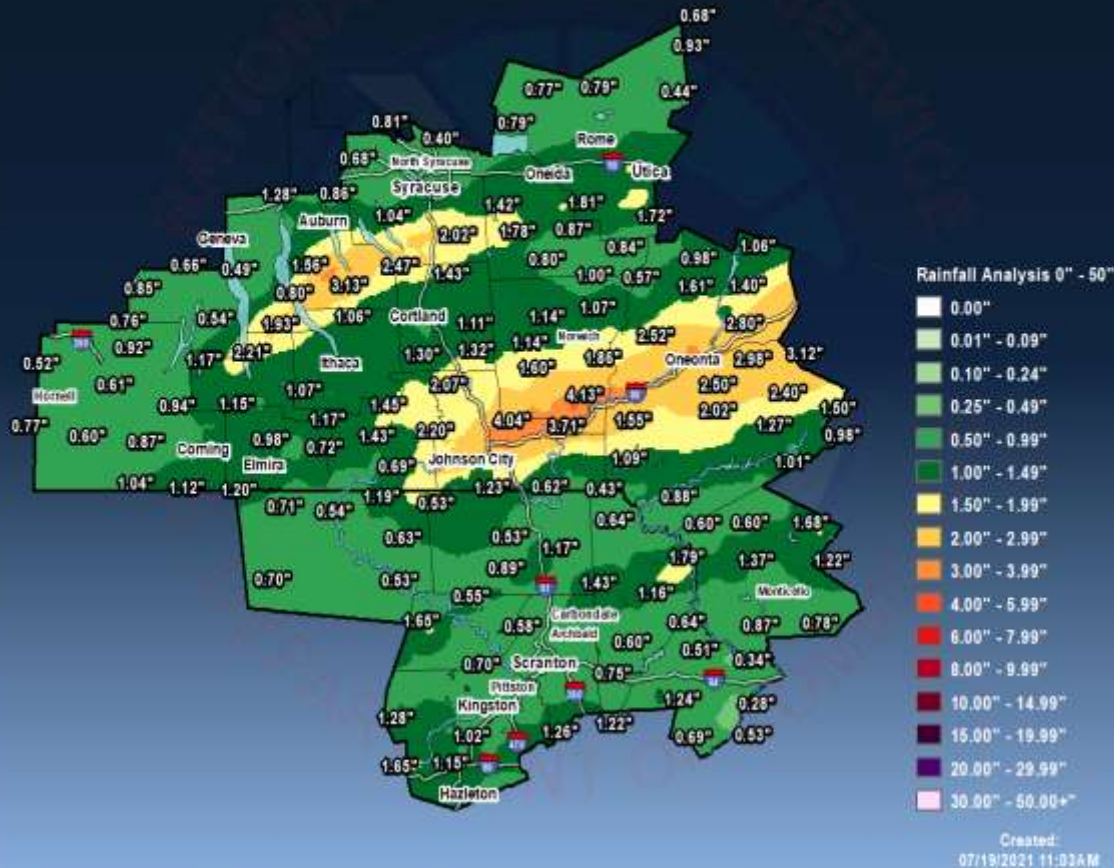
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National Weather Service Binghamton New York

24 Hour Rainfall - July 11, 2021

Analysis Data Source: Stage IV and Regional Observations



This is an experimental product. Care should be taken in using the data. Unofficial observations are plotted. Values at interpolated locations may not represent actual reports at that location.

Heavy Rain and localized flash-flooding on July 11th. A band of very heavy rain remained nearly stationary during the late afternoon and evening hours, bringing a narrow stripe of 3-4" from the Town of Dickinson, Chenango, Bainbridge, Sidney and Oneonta areas. Another area of heavy rain developed during the overnight hours, producing 2-3" in a short period of time across parts of Schuyler, Seneca, S Cayuga, Onondaga, Madison and southern Oneida counties. Numerous Flash-flood & flood warnings were issued, with several reports flood waters inundating roads and basements.



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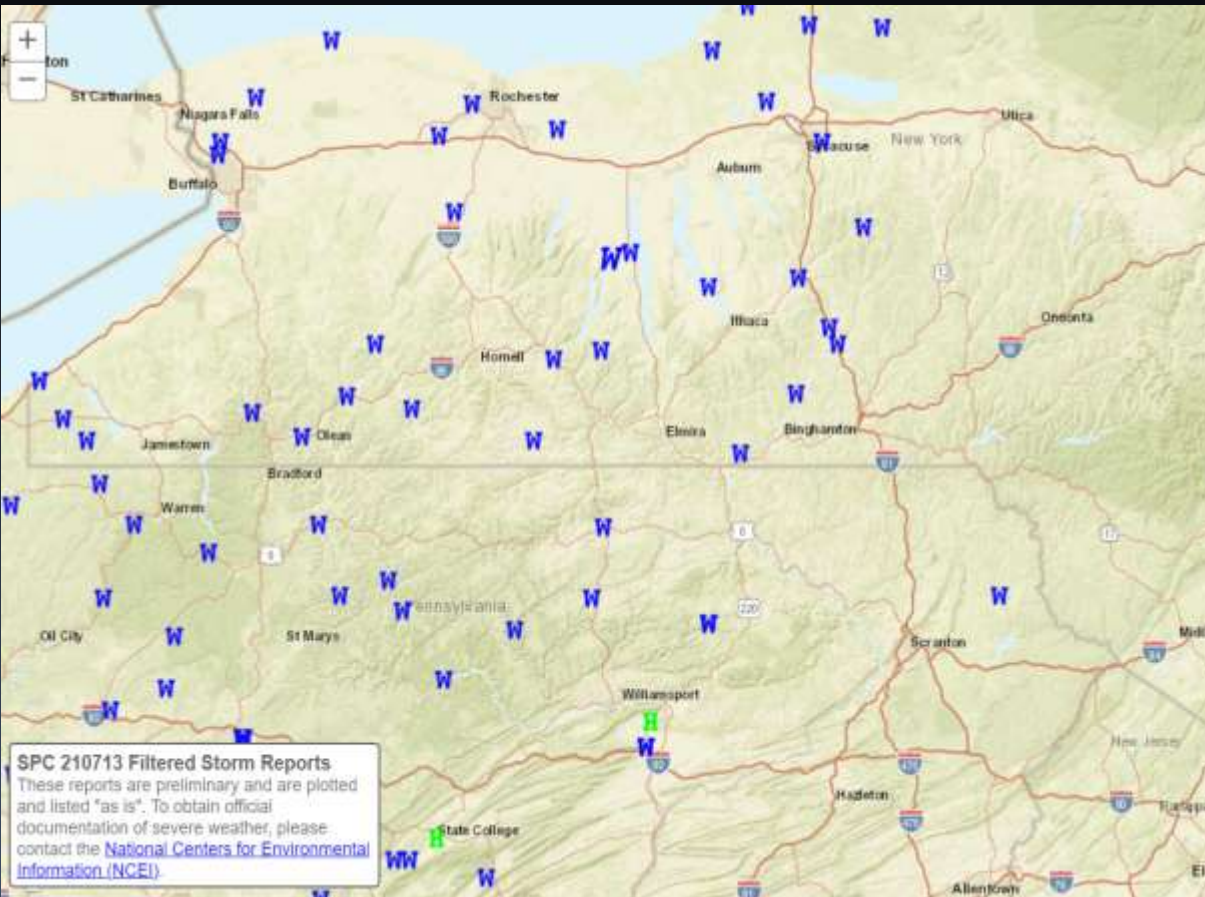
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Severe Thunderstorms 7/13

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- **78 MPH wind gusts at the Penn Yan Automated Weather Observing Station**
- **Tree down on a house and car in De Witt, NY**
- **Tree down on a mobile home in Killawog, NY**
- **Numerous other reports of trees and wires down.**



Blue **W** on the map indicates where thunderstorm wind damage was reported. Green **H** indicates where severe hail was reported.

Summary

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- July featured near average temperatures across Central NY and Northeast PA; generally within $\pm 1^{\circ}\text{F}$
- July was a very wet month, with several locations experiencing their wettest July's on record.
- Measurable rainfall occurred on numerous days in July; recording breaking in some cases
- July also featured several significant weather events; including heavy rain & flash-flooding on the 11-12th
- July saw numerous severe thunderstorm events, which mainly produced damaging winds...although several reports of large hail were also noted
- Two of the more significant severe weather events occurred on July 7th and July 13th with numerous wind damage reports noted.
- A Tornado also struck Westernville, NY in Oneida county during the evening hours on July 8th, causing EF-1 damage

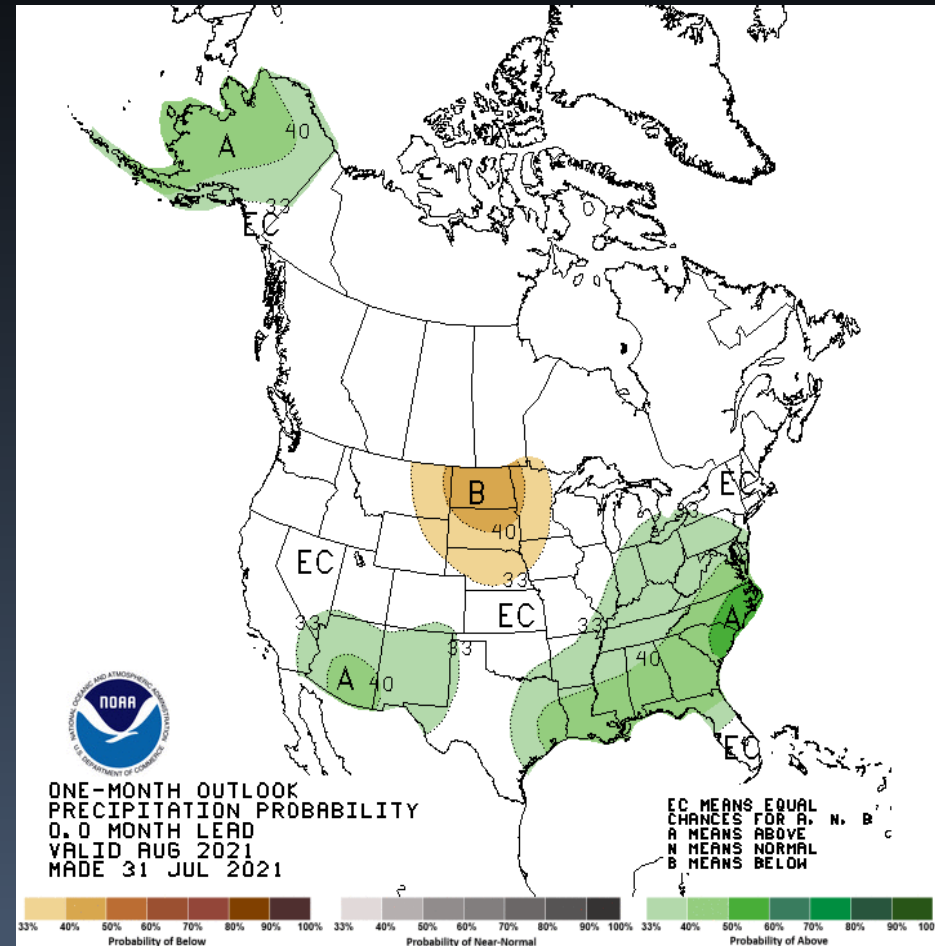
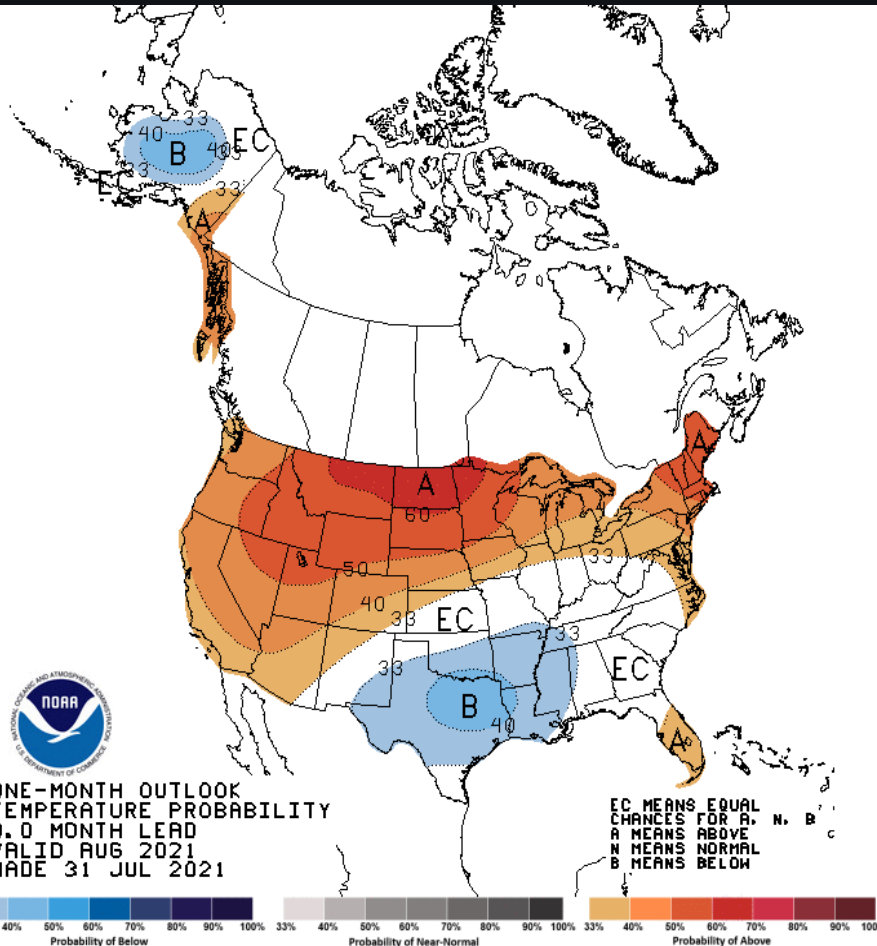
August Outlook

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Temperature Outlook

Precipitation Outlook



Above Average Temperatures Favored for
the Month Across CNY & NE PA

Near, to Slightly Above Average Rainfall
Favored Across CNY & NE PA



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Thank You!